

ABSTRACT OF THE DISCLOSURE

A system for reporting on-board diagnostic data from mobile vehicles to regulatory agencies whose mandate it is to ensure compliance with environmental emissions and safety standards. The system comprises three (3) principal components: (i) an enhanced Hybrid Network Radio, enabled for both IEEE 802 wireless LAN connectivity and Mobile IP; (ii) an IEEE 802 Access point, configured as an IPv6 Router and enabled for Mobile IP to support the functionality of foreign mobility agent; and (iii) a "cluster intelligence" module, incorporated in the same mobile device as the Hybrid Network Radio, using the Automotive Telemetry Protocol (ATP) to enable vehicles to exchange telemetry data with each other over an ad-hoc IEEE 802.11 network.

APPENDIX A

- [1] Nathanson, M., "System and Method for Providing Mobile Automotive Telemetry", August 1997. (1st Transcontech Patent Filing)

- [2] Case, J., Fedor, M., SchofSWI, M., and J. Davin, " A Simple Network Management Protocol (SNMP)", RFC 1157, May 1990.

- [3] Internet Engineering Task Force, Perkins, C. (ed.), "IPv6 Mobility Support", March 1995.

- [4] Nathanson, M., "System and Method for Hybrid Mobile Data Communications", November 1997. (2nd Transcontech Patent Filing).

- [5] Narten, T., Nordmark, E., and W. Simpson, " Neighbor Discovery for IP Version 6 (IPv6)", RFC 1970, August 1996.

- [6] Deering, S. and Hinden, R., "Internet Protocol, Version 6 (IPv6) Specification", RFC 1883, Dccember 1995.

- [7] Conta, A. and Deering, S., "Internet Control Message Protocol (ICMpv6) for the Internet Protocol Version (IPv6) Specification", RFC 1885, December 1995.